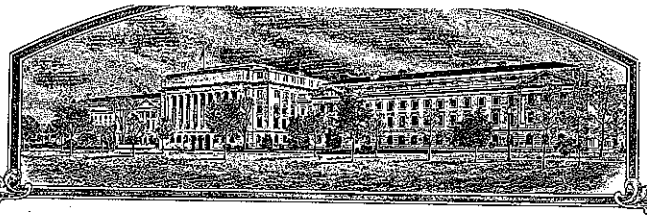
No. 200100219



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Monsanto Company

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE , OR USING IT IN UCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY CTION ACT. IN THE UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS A ERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS SPECIFIED BY THE OWNER OF THE 4 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

WHEAT, COMMON

'Charter'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this third day of December, in the year two thousand one.

Attest:

Paul M. Jarboe

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Secretary of Agriculture

Local Reproduction of FORM - OMB NO. 0581-0055

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE DIVISION - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the privacy Act of 1974 (5 U.S.C. 552a)

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421) Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S) *(as it is to appear on the Certificate)*
Monsanto Company

2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER
W96-410

3. VARIETY NAME
Charter

4. ADDRESS *(Street and No. or R.F.D. No., City, State, and Zip Code)*
700 Chesterfield Parkway North
St. Louis, Missouri 63198

5. TELEPHONE *(include area code)*
636-737-6089

6. FAX *(include area code)*
636-737-7250

PVPO NUMBER
200100219

FILING DATE
June 11, 2001

FEES RECEIVED
FILING AND EXAMINATION FEE: 2705.00
DATE 6/11/2001
CERTIFICATION FEE 2385.00
DATE 10/11/2001

7. GENUS AND SPECIES NAME
Triticum aestivum

8. FAMILY NAME *(Botonical)*
Gramineae

9. CROP KIND NAME *(common name)*
MAH 8-28-01 ~~Hard~~ Soft Red Winter Wheat

10. IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION *(corporation, partnership, association,etc.) (common name)*
Corporation

11. IF INCORPORATED, GIVE STATE OF INCORPORATION
Delaware

12. DATE OF INCORPORATION
1933

13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS

Ms. Sally Metz
700 Chesterfield Parkway North
St. Louis, Missouri 63198

AND

Dr. Rollin Sears
6515 Ascher Road
Junction City, Kansas 66441

14. TELEPHONE *(include area code)*
636-737-6089

15. FAX *(include area code)*
636-737-7250

16. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED *(follow instructions on reverse)*

a. [X] Exhibit A. Origin and Breeding History of the Variety
b. [X] Exhibit B. Statement of Distinctness
c. [X] Exhibit C. Objective Description of the Variety
d. [X] Exhibit D. Additional Description of the Variety
e. [X] Exhibit E. Statement of the Basis of the Applicant's Ownership
f. [X] Voucher Sample *(2,500 viable untreated seeds, or, for tuber propagated varieties veification that tissue culture will be deposited and maintained in a public repository)*
g. [X] Filing and Examination Fee *($2,450)*, made payable to "Treasurer of the United States" *(Mail to PVPO)*

17. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY, AS A CLASS OF CERTIFIED SEED? *(See Section 83(a) of the Plant Variety Protection Act)*
[X] YES *(if "yes", answer items 18 and 19 below)* [ ] NO *(if "no", go to item 20)*

18. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?
[ ] YES [X] NO

19. IF 'YES' TO ITEM 18, WHICH CLASSES OF PRODUCTION BEYOND BREEDERS SEED?
[ ] FOUNDATION [ ] REGISTERED [ ] CERTIFIED

20. HAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BEEN RELEASED, USED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES?
[ ] YES *(iF "YES", give names of countries and dates)* [X] NO

21. The applicant(s) declare that a viable sample of basic seed of the variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.

The undersigned applicant(s) is(are) the owner(s) of this sexually reproduced or tuber plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.

Applicant(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.

SIGNATURE OF APPLICANT (Owner(s))		SIGNATURE OF APPLICANT (Owner(s))	
Sally G Metz			
NAME *(Please print or type)*		NAME *(Please print or type)*	
Sally Metz			
CAPACITY OR TITLE	DATE	CAPACITY OR TITLE	DATE
Director Wheat Technology	21 May 2001		

SD-470 (04-95)

(See reverse for instructions and information collection burden statement)

Exhibit A.
Origin and Breeding History of Charter

Charter is an F3 derived, single plant selection from the cross: 87PYI140-100 / 87F27515, where:

87PYI140-100 = MN72506 / Thunderbird
MN72506 = Predgornia /3/ II-62-68 / Tobari 66 // Fletcher / Ciano

87F27515 = Mustang // TAM W-101 / Roussalka /3/ Hawk / Amigo.

The final cross was made in 1991 in Berthoud,CO. An F3 plant selection was made from this population on the basis of short plant height, head fertility and the absence of leaf rust in 1994. The resulting F4 plant row was tested in preliminary yield trials in 1995 and has been subsequently tested in replicated trials from 1996 through 2000 with the experimental designation W96-410. These replicated trials represent a broad geographic area in the Hard Winter Wheat region. Additionally, W96-410 has been tested in replicated trials in both the northern and southern Soft Red Winter Wheat regions.

In 1997, forty eight headrows were planted in Berthoud, Colorado. Twelve rows with uniform appearance were individually harvested and planted in progeny plots in 1998 in Berthoud, Colorado. Three of these progeny plots were selected and grown in 1999 in a 0.2 acre initial Breeders seed increase. In 2000 a 4.5 acre Breeders seed increase was grown in Hereford, Texas which produced 15,220 pounds of Foundation seed.

Charter has been uniform and stable since 1998. Less than 0.8% of the plants were rogued form the Breeders seed increase in 1999. Approximately 85% of the rogued variant plants were taller height wheat plants (8 to 15 cm) and 5% were bronze chaffed wheat plants. Up to 1% variant plants may be encountered in subsequent generations.

Exhibit B.
Statement of Distinctness

Charter is most similar to the hard red winter wheat 'Abilene'. However, it can be easily distinguished by the following morphological characteristics:

- Charter has a green plant color at boot stage (R.H.S. Color Chart No. 137B; Berthoud, Colorado 1999 and 2000).). Abilene has a blue-green plant color at boot stage (R.H.S. Color Chart No. 122B; Berthoud, Colorado 1999 and 2000).

- Charter has a medium glume width (Berthoud, Colorado 1999 and 2000). Abilene has a narrow glume width (Berthoud, Colorado 1999 and 2000).

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE DIVISION
BELTSVILLE, MARYLAND 20705

EXHIBIT C
(Wheat)

OBJECTIVE DESCRIPTION OF VARIETY

WHEAT (*Triticum* Spp.)

NAME OF APPLICANT(S)	FOR OFFICIAL USE ONLY
Monsanto Company	PVPO NUMBER 200100219
ADDRESS (*Street and No. or R.F.D. No., City, State, and Zip Code*) **700 Chesterfield Parkway North** **St. Louis, Missouri 63198**	NAME OR EXPERIMENTAL DESIGNATION **Charter**

Place the appropriate number that describes the varietal character of this variety in the boxes below.
Place a zero in the first box when number is either 99 or less or 9 or less respectively. Data for quantitative plant characters should be based on a minimum of 100 plants. Comparative data should be determined from varieties entered in the same trial. Royal Horticultural Society or any recognized standard may be used to determine plant colors; designate system used.
Please answer all questions for your variety; lack of response may delay progress of your application.

1. KIND:

[1] 1=Common 2=Durum 3=Club 4=Other (*specify*) _____

2. VERNALIZATION:

[2] 1=Spring 2=Winter 3=Other (*specify*) _____

3. COLEOPTILE ANTHOCYANIN:

[1] 1=Absent 2=Present

4. JUVENILE PLANT GROWTH:

[2] 1=Prostrate 2=Semi-erect 3=Erect

5. PLANT COLOR (*boot stage*):

[2] 1 = Yellow-Green 2 = Green 3 = Blue-Green

6. FLAG LEAF (*boot stage*):

[1] 1 = Erect 2 = Recurved

[2] 1 = Not Twisted 2 = Twisted

7. EAR EMERGENCE:

[0][3] Number of Days Earlier Than **Tomahawk** *

[0][0] Number of Days Later Than _____ *

8. ANTHER COLOR:

[1] 1 = YELLOW 2 = PURPLE

9. PLANT HEIGHT (*from soil to top of head, excluding awns*):

[0][0] cm Taller Than _____ *

[0][4] cm Shorter Than **Tomahawk** *

* Relative to a PVPO-Apprved Commercial Variety Grown in the Same Trial

10. STEM:

A. ANTHOCYANIN

[1] 1= Absent 2=Present

B. WAXY BLOOM

[2] 1=Absent 2=Present

C. HAIRINESS (*last internode of rachis*)

[2] 1=Absent 2=Present

D. INTERNODE (*specify number*) _____

[1] 1=Hollow 2=Semi-solid 3=Solid

E. PEDUNCLE

[1] 1=Erect 2=Recurved

[3][2] cm Length

11. HEAD (*at Maturity*):

A. DENSITY

[2] 1=Lax 2=Middense 3= Dense

B. SHAPE

[1] 1 = Tapering 2= Strap 3 = Clavate 4 = Other (*specify*) _____

C. CURVATURE

[2] 1 = Erect 2 = Inclined 3 = Recurved

D. AWNEDNESS

[4] 1 = Awnless 2 = Apically Awnletted 3 = Awnletted 4 = Awned

12. GLUMES (*at Maturity*):

A. COLOR

[1] 1 = White 2 = Tan 3 = Other (*specify*) _____

B. SHOULDER

[2] 1 = Wanting 2 = Oblique 3 = Rounded 4 = Square 5 = Elevated 6 = Apiculate

C. BEAK

[3] 1 = Obtuse 2 = Acute 3 =Acuminate

D. LENGTH

[2] 1 = Short (ca. 7mm) 2 = Medium (ca. 8mm) 3 = Long (ca. 9mm)

E. WIDTH

[2] 1 = Narrow (ca. 3mm) 2 = Medium (ca. 3.5mm) 3 = Wide (ca. 4mm)

13. SEED:

A. SHAPE

[1] 1 = Ovate 2 = Oval 3 = Elliptical

B. CHEEK

[1] 1=Rounded 2=Angular

C. BRUSH

[2] 1=Short 2=Medium 3=Long

[1] 1 = Not Collared 2 = Collared

D. CREASE

[1] 1 = Width 60% or less of Kernel
2 = Width 80% or less of Kernel
3 = Width Nearly as Wide as Kernel

[1] 1 = Depth 20% or less of Kernel
2 = Depth 35% or less of Kernel
3 = Depth 50% or less of Kernel

200100219

13. SEED: (continued)

E. COLOR

[3] 1 = White 2 = Amber 3 = Red 4 = Other (*specify*) _____

F. TEXTURE

2 [1] 1=Hard 2=Soft MAH 8/28/01

G. PHENOL REACTION (*see instructions*):

[0] 1 = Ivory 2 = Fawn 3 = Light Brown 4 = Dark Brown 5 = Black

14. DISEASE: (0=Not Tested; 1=Susceptible; 2=Resistant; 3=Intermediate; 4=Tolerant)

PLEASE INDICATE THE SPECIFIC RACE OR STRAIN TESTED

[3]	Stem Rust (*Puccinia graminis* f. sp. *tritici*) Field races _____	[3]	Leaf Rust (*Puccinia recondita* f. sp. *tritici*) Field races _____
[0]	Stripe Rust (*Puccinia striiformis*)	[0]	Loose Smut (*Ustilago tritici*)
[3]	Tan Spot (*Pyrenophora tritici-repentis*)	[0]	Flag Smut (*Urocystis agropyri*)
[0]	Halo Spot (*Selenophoma donacis*)	[0]	Common Bunt (*Tilletia tritici or T. laevis*)
[0]	*Septoria nodorum* (Glume Blotch)	[0]	Dwarf Bunt (*Tilletia controversa*)
[0]	*Septoria avenae* (Speckled Leaf Disease)	[0]	Karnal Bunt (*Tilletia indica*)
[3]	*Septoria tritici* (Speckled Leaf Blotch) Field races _____	[3]	Powdery Mildew (*Erysiphe graminis* f. sp. *tritici*) Field races _____
[0]	Scab (*Fusarium* spp.)	[0]	Snow Molds
[0]	Black Point (Kernel Smudge)	[0]	Common Root Rot (*Fusarium, Cochliobolus* and *Bipolaris* spp.
[0]	Barley Yellow Dwarf Virus (BYDV)	[0]	Rhizoctonia Root Rot (*Rhizoctonia solani*)
[2]	Soilborne Mosaic Virus (SBMV) Field races _____	[0]	Black Chaff (*Xanthomonas campestris* pv. *translucens*)
[2]	Wheat Yellow (Spindle Streak) Mosaic Virus Field races _____	[0]	Bacterial Leaf Blight (*Pseudomonas syringae* pv. *syringae*)
[3]	Wheat Streak Mosaic Virus (WSMV) Field races _____	[ ]	Other (*specify*)
[ ]	Other (*specify*)	[ ]	Other (*specify*)
[ ]	Other (*specify*)	[ ]	Other (*specify*)
[ ]	Other (*specify*)	[ ]	Other (*specify*)

200100219

15. INSECT: (0=Not Tested; 1=Susceptible; 2=Resistant; 3=Intermediate; 4=Tolerant)

PLEASE SPECIFY BIOTYPE (where needed)

0	Hessian Fly (*Mayetiola destructor*)		Other (*specify*)
0	Stem Sawfly (*Cephus* spp.)		Other (*specify*)
0	Cereal Leaf Beetle (*Oulema melanopa*)		Other (*specify*)
0	Russian Aphid (*Diuraphis noxia*)		Other (*specify*)
0	Greenbug (*Schizaphis graminum*)		Other (*specify*)
0	Aphids		

16. ADDITIONAL INFORMATION ON ANY ITEM ABOVE, OR GENERAL COMMENTS:

Exhibit D.
Additional Description of Charter

Charter is a winter wheat bred and developed by AgriPro Wheat. Charter is a short height wheat with early maturity and excellent straw strength. Charter is moderately resistant to Leaf rust and moderately susceptible to Stem rust. Charter is resistant to soilborne mosaic and spindle streak mosaic viruses. Milling and baking characteristics are acceptable.

Juvenile growth habit is semierect. Seedling anthocyanin is present. Plant color at boot stage is green. Auricle anthocyanin and auricle hairs are present. Flag leaf at boot stage is erect and twisted. Waxy bloom is present on the head, stem and flag leaf sheath. Anther color is yellow. Head shape is tapering and awned. Glumes are glabrous, medium in width and length with oblique shoulders and acuminate beaks. Seed shape is ovate. Brush hairs are medium in size. Seed crease depth is shallow and width is narrow. Seed cheeks are rounded.

Charter is adapted to traditional hard winter wheat growing areas of the southern Great Plains and shows adaptation in the traditional soft red winter wheat growing region of the eastern U.S.

AGRIPRO

Plains Team Quality Summary

Year-Loc	Wht Prot	Flr Prot		Norris Hard	Flr Yld		Ash	Mixogram Peak Time	Mixogram Peak HT	Mixogram Tol.		Baking Quality Abs		Baking Quality Mix Time		Baking Quality Loaf Vol		Crumb Grain	Crumb Tex	Crumb Color	Over All	Comments
	14%mb	14%mb	R		%	R		min	N.U.	mm	R	%	R	min	R	cc	R	R	R	R	R	
CHARTER																						
1996 - GK		11.8	5	108	70.7	4		4.00	5.0	1156	4	61.0	5	4.00	1	825	7	4	2		47	
1997 - SK	11.3	9.1	5	76	70.5	4		4.25	5.0	1090	4	57.0	7	4.25	2	590	6	3	4	3	51	
1998 - SK	11.5	10.1		95	68.4		0.378	4.00	5.0	960		61.0		4.00		825		4	4	3		H
1999 - QK	11.9	10.5		78	70.2		0.440	5.50	4.5	1133		61.0		5.50		825		3	3	2		
1999 - SK	12.0	10.3		65	70.0																	
2000 - EB	11.1	9.6		90	67.4			4.75	4.8	1129		59.0		4.25		765		3	4	3		
2000 - VT	12.4	11		92	67.2		0.490	4.25	4.8	1106		60.0		4.25		745		4	4	3		HS
2000 - WB	14.5	13.3		85	63.2		0.444	5.00	4.8	1361		61.0		5.00		960		4	3	3		
Average:	**12.1**	**10.7**	**5**	**86**	**68.4**	**4**	**0.438**	**4.54**	**4.8**	**1134**	**4**	**60.0**	**6**	**4.46**	**2**	**791**	**7**	**4**	**3**	**3**	**49**	
HAWK																						
1996 - GK		11.8	5	104	73.8	2		4.50	5.0	1151	4	62.0	5	4.50	3	1010	5	5	2		47	
1997 - SK	10.1	9	5	77	72.6	3		3.75	5.0	1086	4	57.0	7	3.75	1	640	5	5	5	3	54	
1998 - SK	10.5	9.2		82	72.3		0.414	4.00	4.5	1158		60.0		4.00		940		3	4	4		
1999 - QK	12.7	11.4		56	69.5		0.452	4.50	5.0	1109		61.0		4.50		820		4	2	2		
1999 - SK	11.5	10.2		69	72.3																	
2000 - EB	11.9	10.6		84	69.4			5.75	5.0	1230		61.0		5.75		860		3	3	4		
2000 - VT	12.4	11.2		94	68.4		0.540	4.00	5.0	1173		61.0		4.00		890		4	3	3		
2000 - WB	14.5	13.3		77	67.1		0.420	5.50	5.0	1360		63.0		5.50		1045		4	3	3		
Average:	**11.9**	**10.8**	**5**	**80**	**70.7**	**3**	**0.457**	**4.57**	**4.9**	**1181**	**4**	**60.7**	**6**	**4.57**	**2**	**886**	**5**	**4**	**3**	**3**	**51**	

Data Summary

Var./Line	Heading	Maturity	Coleoptile	Height	Straw Strength	Leaf Rust Severity	Leaf Rust Reaction	Stem Rust Severity	Stem Rust Reaction	Powdery Mildew	WSMV	SBMV	SSMV
W96-410	3	3	5	3	3	2	7	2	7	6	4	4	4
TOMAHAWK	4	4	4	4	4	2	3	3	5	3	8	3	4

Data generated in 1996:

Colorado - Yield, Heading, Pollination, Maturity, Height, Lodging
Leaf Rust (greenhse screening), Powdery Mildew,
Coleoptile length, Aluminum Tolerance (Lab screening)
Imperial, NE - Yield, Lodging
Salina, KS - Yield, Test Wt., Winterkill, Maturity
Goodland, KS - Yield, Test Wt., Heading, Maturity, Septoria
Garden City, KS - Maturity
Dumas, TX - Yield, Test Wt.
Nardin, OK - Yield, Test Wt., Maturity
Hays, KS - WSMV (Visual screening).

Data generated in 1997:

Colorado - Yield, Test Wt., Heading, Height, Leaf Rust, Lodge Severity,
Powdery mildew, Hessian fly, Aluminum tolerance, Coleoptile length
Goodland, KS - Yield, Test Wt.
Beloit, KS - Yield, Test Wt., Leaf Rust, Tan Spot
Salina, KS - Yield, Test Wt., Heading, Leaf Rust, Septoria
Quinter, KS - Yield, Test Wt., Leaf Rust, Tan Spot, Lodge Severity
Enid, OK - Aluminum Tolerance
Nardin, OK - Heading, Maturity, Leaf Rust, Septoria
Vernon, TX - Leaf Rust
Paxton, NE - Winterhardiness
Geneva, NE - Leaf Rust, Green Leaf Retention

Data generated in 1998:

Colorado - Yield, Test Wt., Heading, Maturity, Height, Lodge Severity,
Powdery mildew, Coleoptile length
Goodland, KS - Yield, Test Wt., Heading, Spring Growth
Beloit, KS - Yield, Test Wt., Leaf Rust, Tan Spot, Maturity, Lodge severity
Salina, KS - Yield, Test Wt., Height, Maturity, Mill & Bake
Quinter, KS - Yield, Test Wt., Heading, Lodge Breakage, Spring Growth
Hugoton, KS - Yield, Test Wt.
Haven, KS - Yield, Test Wt., Maturity, Powdery Mildew
Enid, OK - Aluminum Tolerance
Nardin, OK - Yield, Test Wt., Leaf Rust, Tan Spot, Septoria
Paxton, NE - Yield, Test Wt.
Hereford, TX - Yield, Test Wt.
MacGregor, TX - Leaf Rust, Maturity

Data generated in 1999:

Colorado - Yield, Test Wt., Heading, Height, Maturity, Lodge Severity,
Otis, CO - Yield, Test Wt.
Goodland, KS - Winterkill, Spring Growth
Salina, KS - Yield, Test Wt., Soil Borne
Quinter, KS - Yield, Test Wt., Mill & Bake
Hugoton, KS - Yield, Test Wt.
Haven, KS - Spindle Streak
Manhattan, KS - Soil Borne
Wichita, KS - Soil Borne, Spindle Streak
Paxton, NE - Yield, Test Wt.
Bruning, NE -Yield, Test Wt., Winterkill, Maturity, Leaf Rust, Septoria,
MacGregor, TX - Leaf Rust, Maturity
Hays, KS - WSMV (Visual screening).

Note: Rankings in this ta	1	9
1-9 scale where 1 and 9	early	late
Trait	early	late
Heading	long	short
Maturity	short	tall
Coleoptile	strong	weak
Height	resistant	susceptible
Straw Strength		
All disease & insect ratings		

1999 AGRIPRO WHEAT
OVERYEARS SUMMARY
W96-410

AGRIPRO OVERYEARS YIELD SUMMARY - SOUTHERN GREAT PLAINS

VARIETY	YIELD bu/ac				TEST WEIGHT lb/bu		
	1996	1997	1998	1999	1996	1997	1998
(Number of Locations)	(5)	(4)	(9)	(7)	(4)	(4)	(9)
HAWK	61.3	60.7	56.5	66.3	59.8	60.0	59.9
TOMAHAWK	60.8	69.7	62.2		59.6	60.2	60.0
JAGGER	62.6	76.1	68.8	77.4	59.9	61.4	60.4
2163	62.4	76.6	61.0	69.7	59.0	59.4	58.2
2137		82.2	64.1	72.3		61.1	60.1
KARL92		64.8	61.6			60.3	61.2
TAM 107			59.9	69.2			59.0
IKE			60.2	68.1			60.8
CUSTER			65.6	69.1			61.3
PECOS			61.6				61.3
HICKOK			58.6				62.9
CORONADO			64.5	71.5			61.1
BIG DAWG			58.3	70.5			61.3
OGALLALA			59.7	68.4			62.6
HONDO			58.6	68.5			60.9
W96-410	**65.1**	**77.8**	**64.8**	**78.5**	**60.3**	**62.2**	**60.5**
MEAN	58.7	70.6	60.8	71.1	57.4	60.5	60.8

REPRODUCE LOCALLY. *Include form number and edition date on all reproductions.* FORM APPROVED - OMB NO. 0581-0055

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

EXHIBIT E
STATEMENT OF THE BASIS OF OWNERSHIP

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION OR [illegible] NUMBER	3. VARIETY NAME
Monsanto Company	W96-410	Charter

4. ADDRESS (*Street and No., or R.F.D. No., City, State, and ZIP, and Country*)	5. TELEPHONE (*include area code*)	6. FAX (*include area code*)
700 Chesterfield Parkway North St. Louis, Missouri	636-737-6089	636-737-7250

7. PVPO NUMBER 200100219

8. Does the applicant own all rights to the variety? *Mark an "X" in appropriate block.* If no, please explain. [X] YES [ ] NO

9. Is the applicant (individual or company) a U.S. national or U.S. based company? [X] YES [ ] NO
If no, give name of country

10. Is the applicant the original owner? [ ] YES [X] NO *If no, please answer one of the following:*

a. If original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. national(s)?
[ ] YES [ ] NO If no, give name of country

b. If original rights to variety were owned by a company(ies), is(are) the original owner(s) a U.S. based company?
[X] YES [ ] NO If no, give name of country

11. Additional explanation on ownership (*if needed, use reverse for extra space*):

Please see following page.

PLEASE NOTE:

Plant variety protection can be afforded only to owners (not licensees) who meet one of the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.

2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.

3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definition.

Exhibit E.
Statement of the Basis of Applicant's Ownership

The variety for which Plant Variety Protection is hereby sought was developed by Dr. John Moffatt, an employee of AgriPro Wheat. By agreement between employees and AgriPro Wheat all rights to any invention, discovery, or development made by the employee while employed by AgriPro Wheat, were assigned to AgriPro Wheat, with no rights of any kind pertaining to 'Charter' being retained by the employees.

By contractual agreement the variety 'Charter' was purchased from AgriPro Wheat, a business unit of Advanta USA, Inc. in June of 1996 and is currently owned by Monsanto Company.